

No.

200400267



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis Vegetable Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'Cadillac'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this third day of May, in the year two thousand and seven.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

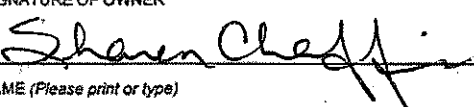


U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Seminis Vegetable Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME RS 1260		3. VARIETY NAME Cadillac	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 2700 Camino del Sol Oxnard, CA 93030-7967		5. TELEPHONE (include area code) 805 647 1572		FOR OFFICIAL USE ONLY PVPO NUMBER 200400267	
		6. FAX (include area code) 805 918 2545			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION California		9. DATE OF INCORPORATION 04-Jun-1962	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)				FILING AND EXAMINATION FEES: \$ 3652.00 DATE 7/1/04 CERTIFICATION FEE: \$ 768.00 DATE 4/23/07	
Sharen Chaffin Seminis Vegetable Seeds, Inc. 37437 State Hwy 16 Woodland CA 95616					
Marcel Bruins Seminis Vegetable Seeds, Inc. Nude 54D 6702 DN Wageningen The Netherlands mbruins@svseeds.nl Ph: 31 317 450218 Fax: 31 317 450217					
11. TELEPHONE (include area code) 530 669 6172		12. FAX (include area code) 530 666 4426		13. E-MAIL sharen.chaffin@seminis.com	
14. CROP KIND (Common Name) Bean, garden		15. GENUS AND SPECIES NAME OF CROP Phaseolus vulgaris		16. FAMILY NAME (Botanical) Leguminosae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
<input checked="" type="checkbox"/> a. Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> b. Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> c. Exhibit C. Objective Description of Variety <input type="checkbox"/> d. Exhibit D. Additional Description of the Variety (Optional) <input checked="" type="checkbox"/> e. Exhibit E. Statement of the Basis of the Owner's Ownership <input checked="" type="checkbox"/> f. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) <input checked="" type="checkbox"/> g. Filing and Examination Fee (\$2,705, made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)			
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED * NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER		
NAME (Please print or type) Sharen Chaffin			NAME (Please print or type)		
CAPACITY OR TITLE Specialist		DATE 6-30-04		CAPACITY OR TITLE	
				DATE	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Germany: Sale July 5, 2000; NL: Sale April 2001; AT/BE/CH: Sale June 2001; LI: Sale Feb. 2002; FR/IT: Sale April 2002; CA: Sale April 2003; PL: Sale June 2003; BG: Sale July 2003; NO: Sale Feb. 2004; US: Sale March 2004; GB: Sale April 2004

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

EU -- Filed March 27, 2000 Filing number: 2000/0457 (Plant Breeder's Right)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

EXHIBIT A

200400267

Origin and Breeding History of CADILLAC (98RS1260)

CADILLAC (98RS1260) was developed by pedigree selection at Seminis Vegetable Seeds' Northern European Breeding Station for open field crops in Wageningen, The Netherlands. It originates from a hand pollinated cross between the lines 94/12763, which later became Jamaica marketed by Seminis Vegetable Seeds and 94/14648, which is 94RS1252.

94RS1252 had been selected from an initial cross between Canberra (Seminis) and TreFine (TF) line Masai developed and marketed by Syngenta. 94RS1252 was dropped in the first stages of testing for poor pod quality.

Jamaica, Masai and Canberra have been registered in Europe and are publicly known.

Parent A: 94/12763 (Jamaica) is a 3 sieve or European "Fine" market class (F), Halo Blight susceptible, Anthracnose segregating, heat tolerant, cultivar with a floppy plant type.

Parent B: 94/14648, Halo Blight race 1&2 resistant, Anthracnose resistant, sensitive for heat, upright plant type.

The initial cross was made in the greenhouse in the fall of 1994. After 8 generations of selfing and pedigree selection, a line was selected that combined the yield, plant type Halo Blight resistance and Anthracnose resistance.

Selection scheme:

Year	Season	Gen.	Location	Description
1995	Fall	AxB	Greenhouse	Cross made
1996	Spring	F1	Greenhouse	Increase, 1000 seeds harvested in bulk.
1996	Summer	F2	Field Wag.	From the population of 1000 plants, 123 were selected for agronomic and horticultural characteristics of the TF "TreFine" (2 sieve market type) and harvested as single plant selections.
1996	Winter	F3	Field Chile	The 123 F3 lines were planted in Chile, 45 plants per line. Lines were selected again for performance as a European TF market type and harvested in bulk. This resulting in 11 bulked families.
1997	Summer	F4	Field Wag.	Planted all families in four different sowing dates (320 plants per sowing), and selected 97/5387 for its superior TF characteristics. Consequently 20 single plants were harvested at stake number 8896.
1997	Fall	F5	Greenhouse	Testing showed that the 20 single plants were segregating for Halo blight and Anthracnose. Saved 4 surviving plants of each line from the Halo Blight test in the greenhouse and harvested as single plants.
1998	Winter	F5	Field Chile	Planted 45 seeds of each line of 97/8896 in the field. (20 in total). Selected 5 lines for further selection and harvested them as 5 bulked families. 98/2895, originating from 97/8896-16 was tested for disease resistance and found resistant to Anthracnose.

200400267

1998	Spring	F6	Greenhouse	Sowed the F5 lines from the fall 1997 greenhouse cycle. Corresponding with the selections made in Chile. 4 plants per F5 line, is 4x4 per family. Without selection.
1998	Summer	F6	Field	Planted bulk 98/2895 in various observation trials with Observation check varieties. Selected it for yield, pod characteristics trials Holland and plant type. Corresponding lines will be selected Italy and France in the breeding trial.
1998	Summer	F7	Breeding Field Wag.	Planted the 16 lines from the spring greenhouse crop Corresponding with bulk 98/2895 45 seeds per line. Selected the line at stake 12755 as the best one from the group and numbered it as 98RS1260. Harvested 6 single plants and the remaining plants as bulk for trial seed.
1998	Fall	F8	Greenhouse	98/12755 was tested for resistance to Halo Blight and Anthracnose and found resistant to both. Sowed 3 plants of each of the single plant selection, resulting in 18 (F8) lines.
1999	Spring	F9	Greenhouse	6 plants of each F8 line were planted and 100 single plants were harvested. These 100 lines were transferred to the Foundation Seed Department.
1999	Summer	F10	FS Field Holland	All 100 lines were planted and screened for uniformity. The F9 derived lines were sufficiently uniform for plant habit pod type, maturity, and other characteristics that 50 plants were selected and harvested for bank seed foundation seed.
1999	Fall	F8+3	Greenhouse	Seed of 50 single plant selections were planted and screened for resistant to Halo Blight and Anthracnose (CO2 gene). All lines were resistant to Halo Blight and carried the CO2 gene for Anthracnose resistance. These 50 lines were then bulked.

Observations during 3 generations of multiplication and increases in the Netherlands, Chile and California indicated that CADILLAC (98RS1260) was uniform for plant habit, maturity, pod type, and other horticultural and agronomic characteristics. As is true with other garden beans, a very small percentage of mutations or variants for flat pods or string may occur during repeated replication. Cadillac was within the commercially acceptable limits of .1% (for flat pods) and .01% (for string) for this type of mutation / variant.

Revised: March 21, 2007

EXHIBIT B

200460267

Novelty statement concerning CADILLAC (98RS1260)

CADILLAC (98RS1260) is a green snap bean for processing developed by pedigree selection for use in the North American Two Sieve whole bean or the European TreFine (TF) classes. To our knowledge, the variety that most closely resembles CADILLAC is Masai from Syngenta and it is also a parent used in developing CADILLAC. Masai is considered an industry standard for the TF class. The comparative characteristic that most readily distinguish the two varieties includes but may not be limited to the presence of the CO2 allele which provides resistance to Alpha, Delta, Gamma, and Lambda races of Anthracnose. The CO2 allele is present in CADILLAC while the CO2 allele is absent in Masai. No statistical analysis is required for this comparison.

Revised: March 21, 2007

⇒ Sharen
Chaffin
001 530 666
4426

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection.

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

**OBJECTIVE DESCRIPTION OF
GARDEN BEAN (*Phaseolus vulgaris* L.)**

13 pages
(as announced by
email) Marcel

NAME OF APPLICANT	FOR OFFICIAL USE ONLY
ADDRESS (Street)	PVP NUMBER
Seminis Vegetable Seeds, Inc. 2700 Camino del Sol Oxnard, CA 93030-7967	200400267
	VARIETY NAME
	Cadillac
	TEMPORARY OR EXPERIMENTAL DESIGNATION

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., [0][9][9] or [0][9]) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:

Please answer all questions for your variety; lack of response may delay progress of your application.

1. TYPE:

[1]

1 = Garden 2 = Snap 3 = Flageolet 4 = Romano

2. MARKET MATURITY:

[6][1]

Days to edible pods

Comparison varieties

1 = 'Tendercrop' 2 = 'Kentucky Wonder'

[][][][]

Heat units to edible pods

3 = 'Goldrush' 4 = 'Slenderette'

[][]

Number of days earlier than []

5 = 'Gitana' 6 = 'Provider'

..... Same number of days as []

7 = 'Bush Blue Lake 290' 8 = Other (specify below)

[0][1]

Number of days later than [4]

3. PLANT:

[2][0]

cm Spacing between plants in a row

[2]

Habit

1 = Determinate

2 = Indeterminate, erect stem and branches

3 = Indeterminate with weak and prostrate stem and branches

4 = Indeterminate climbing habit with weak, long and twisted stem and branches

[0][4][0]

cm Height

[1][0]

cm Shorter than

[1]

..... Same height as

[6]

[0][5]

cm Taller than

[3]

Use Comparison Varieties from Section 2.

Please make all 3 comparisons for Height and Spread.

200400267

3. PLANT: (continued)

Exhibit C (Garden Bean) Page 2

cm Spread

cm Narrower than

.... Same width as

cm Wider than

Pod position 1=Low 2=High 3=Scattered

Bush form (illustrated below)



1=Spherical bush form



2=Stem bush form



3=Wide bush form



4=High bush form

5=Other (SPECIFY) _____

4. LEAVES:

Surface:

1=Dull

2=Glossy

3=Intermediate

Size:

1=Small ('Gitana')

2=Medium

3=Large ('Tendercrop')

Color:

1=Light green (as light or lighter than 'Goldrush')

2=Medium green

3=Dark green (as dark or darker than 'Bush Blue Lake 290')

5. ANTHOCYANIN PIGMENT:

1=Absent

2=Present

Flowers

Stems

Pods

Seeds

Leaves

Petioles

Peduncles

Nodes

6. FLOWER COLOR AND DAYS TO BLOOM:

Color of standard

Color of wings

Color of Keel

Days to 50% bloom

Flower Color Choices

1=White

2=Cream

3=Pink

4=Lilac

5=Purple

6=Blue

7=Other (SPECIFY) _____

200400267

7. PODS: (edible maturity): (continued)

Exhibit C (Garden Bean) Page 3

☐ 2Exterior color
(fresh)

- 1=Light green (as light or lighter than 'Provider')
 2=Medium green
 3=Dark green (as dark or darker than 'Bush Blue Lake 290')
 4=Yellow ('Goldrush')
 5=Green-red variegated (horticultural)
 6=Other (SPECIFY) _____

☐ 2

Processed pods (exterior color)

- 1=Light ('Tendercrop') 2=Dark ('Bush Blue Lake 290')

☐ 1

Dry pod color

- 1=Buckskin ('Sprite') 2=Green, persistent chlorophyll ('Hystyle')

☐ 3Cross section pod shape
(middle of the pod)

- 1=Flat 2=Heart (Pear) 3=Round 4=Figure eight

☐ 2

Creaseback

- 1=Present 2=Absent

☐ 1

Pubescence

- 1=None ('Slenderette') 2=Sparse 3=Considerable ('Provider' or 'Sprite')

☐ 1

Constriction (Interlocular cavitation)

- 1=None 2=Slight 3=Deep

☐ 0

mm Spur length

☐ 1

Fiber

- 1=None ('Bush Blue Lake 290') 2=Sparse 3=Considerable ('Sprite')

☐ 7

Number of seeds per pod

☐ 1

Suture string

- 1=Present 2=Absent

☐ 1

Seed development

- 1=Slow ('Bush Blue Lake 290') 2=Medium 3=Fast ('Provider')

☐ -

Machine harvest

- 1=Adapted 2=Not adapted

Percent sieve size distribution at optimum maturity for non-flat pods

1=4.76 to 5.76mm	2=5.76 to 7.34mm	3=7.34 to 8.34mm	4=8.34 to 9.53mm	5=9.53 to 10.72mm	6 ≥ 10.72mm
%	75 %	25 %	%	%	%

2 3/4 Sieve

☐ 1 ☐ 2

cm length

☐ 0 ☐ 7

mm width

☐ 0 ☐ 7

mm thickness

3 1/2 Sieve

☐ 1 ☐ 2

cm length

☐ 6 ☐ 0

mm width

☐ 0 ☐ 0

mm thickness

5 Sieve

☐ ☐

cm length

☐ ☐

mm width

☐ ☐

mm thickness

6 Sieve

☐ ☐

cm length

☐ ☐

mm width

☐ ☐

mm thickness

8. SEED COLOR:

☐ 3

Seedcoat luster

- 1=Shiny 2=Dull 3=Semishiny 4=Variable

☐ 1

Seedcoat

- 1=Monochrome 2=Polychrome

☐ 0

Primary color

- 1=White 2=Yellow 3=Buff 4=Tan 5=Brown 6=Pink 7=Red 8=Purple
 9=Blue 10=Black 11=Other (SPECIFY) _____







200400267

Exhibit C (Garden Bean) Page 4

8. SEED COLOR: (continued)

<input type="checkbox"/> <input type="checkbox"/>	Secondary color	1=White 2=Yellow 3=Buff 4=Tan 5=Brown 6=Pink 7=Red 8=Purple 9=Blue 10=Black 11=Other (SPECIFY) _____
<input type="checkbox"/> 1	Seedcoat pattern	1=Solid 2=Splashed 3=Mottled 4=Striped 5=Flecked 6=Dotted
<input type="checkbox"/> 2	Hilar ring	1=Absent 2=Present
<input type="checkbox"/> 0 <input type="checkbox"/> 1	Hilar Ring Color	1=White 2=Yellow 3=Buff 4=Tan 5=Brown 6=Pink 7=Red 8=Purple 9=Blue 10=Black 11=Other (SPECIFY) _____

9. SEED SHAPE AND SIZE:

<input type="checkbox"/> 1	Hilum view				
		1=Elliptical	2=Oval	3=Round	
<input type="checkbox"/> 2	Cross section	1=Elliptical	2=Oval	3=Cordate	4=Round
<input type="checkbox"/> 1	Side view				
		1=Oval to Oblong	2=Round	3=Reniform	
<input type="checkbox"/> 1 <input type="checkbox"/> 7	gm/100 Seed				
<input type="checkbox"/> 2 <input type="checkbox"/> 9	gm/100 Seed lighter than	<input type="checkbox"/> 4	} Use Comparison Varieties from Section 2. Please make all 3 comparisons.		
	gm/100 Seed same as	<input type="checkbox"/> -			
<input type="checkbox"/> - <input type="checkbox"/> -	gm/100 Seed heavier than	<input type="checkbox"/> -			

10. DISEASE RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant
PLEASE SPECIFY RACE OR STRAIN WHERE APPROPRIATE

<input type="checkbox"/> 2	Anthracnose (<i>Colletotrichum lindemuthianum</i>)	<input type="checkbox"/> Race Alpha	<input type="checkbox"/> Race Beta	<input type="checkbox"/> Race Gamma
		<input type="checkbox"/> Race Delta	<input type="checkbox"/> Race Epsilon	<input type="checkbox"/> 2 Race Lambda
		<input type="checkbox"/> Race Kappa	<input type="checkbox"/> specify race	
<input type="checkbox"/> 0	Bean Rust (<i>Uromyces appendiculatus</i>)	<input type="checkbox"/> Race 38	<input type="checkbox"/> Race 39	<input type="checkbox"/> Race 40
		<input type="checkbox"/> Race 45	<input type="checkbox"/> Race 46	<input type="checkbox"/> Race 44
		<input type="checkbox"/> Race 51	<input type="checkbox"/> Race 52	<input type="checkbox"/> Race 49
		<input type="checkbox"/> Race 59	<input type="checkbox"/> specify race	<input type="checkbox"/> Race 50
			<input type="checkbox"/> Race 54	<input type="checkbox"/> Race 56
<input type="checkbox"/> 0	Powdery Mildew (<i>Erysiphe polygoni</i>)	_____		
<input type="checkbox"/> 0	Fusarium Root Rot (<i>Fusarium solani</i> f. sp. <i>phaseoli</i>)	_____		
<input type="checkbox"/> 0	Pythium Root Rot (<i>Pythium</i> spp.)	_____		
<input type="checkbox"/> 0	Aphanomyces Root Rot (<i>Aphanomyces euteiches</i>)	_____		

200400267

Exhibit C (Garden Bean) Page 5

10. DISEASE RESISTANCE: (continued)

<input type="checkbox"/>	Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	_____
<input type="checkbox"/>	Pythium Blight or Aerial Pythium (<i>Pythium ultimum</i>)	_____
<input type="checkbox"/>	Angular Leaf Spot (<i>Isariopsis griseola</i>)	_____
<input type="checkbox"/>	Bacterial Wilt (<i>Corynebacterium flaccumfaciens</i> subsp. <i>flaccumfaciens</i>)	_____
<input type="checkbox"/>	Bacterial Brown Spot (<i>Pseudomonas syringae</i> pv. <i>syringae</i>)	_____
<input type="checkbox"/>	Common Bacterial Blight (<i>Xanthomonas campestris</i> pv. <i>phaseoli</i>)	_____
<input checked="" type="checkbox"/>	Halo blight (<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>)	_____
<input type="checkbox"/>	Race 1	<input checked="" type="checkbox"/> Race 2 <input type="checkbox"/> Other (SPECIFY) _____
<input type="checkbox"/>	Clover Yellow Vein Virus (CYVV)	_____
<input checked="" type="checkbox"/>	Bean Common Mosaic Virus (BCMV)	_____
<input type="checkbox"/>	BV1	<input type="checkbox"/> NY15 <input type="checkbox"/> NL2 <input checked="" type="checkbox"/> NL3
<input type="checkbox"/>	NL4	<input type="checkbox"/> NL8 <input type="checkbox"/> Florida <input type="checkbox"/> Idaho
<input type="checkbox"/>	Mexican	<input type="checkbox"/> Western <input type="checkbox"/> Type
<input type="checkbox"/>	Other (SPECIFY)	_____
<input type="checkbox"/>	Yellow Bean Mosaic Virus (BYMV)	_____
<input type="checkbox"/>	Curly Top Virus (BCTV)	_____
<input type="checkbox"/>	Other (Specify Disease and Race or Strain)	_____

11. INSECT RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

<input type="checkbox"/>	Aphid	<input type="checkbox"/>	Root Knot Nematode
<input type="checkbox"/>	Leafhopper	<input type="checkbox"/>	Seed Corn Maggot
<input type="checkbox"/>	Lygus	<input type="checkbox"/>	Thrips
<input type="checkbox"/>	Pod Borer	<input type="checkbox"/>	Weevils
<input type="checkbox"/>	Other (SPECIFY)	_____	

12. PHYSIOLOGICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

<input type="checkbox"/>	Heat	<input type="checkbox"/>	Cold	<input type="checkbox"/>	Drought
<input type="checkbox"/>	Air Pollution	<input type="checkbox"/>	Ozone		
<input type="checkbox"/>	Other (SPECIFY)	_____			

13. COMMENTS:

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Seminis Vegetable Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER RS 1260	3. VARIETY NAME Cadillac
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 2700 Camino del Sol Oxnard, CA 93030-7967	5. TELEPHONE (include area code) 805 647 1572	6. FAX (include area code) 805 918 2545
7. PVPO NUMBER 200400267		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. National or a U.S. based company? If no, give name of country

☒ YES ☐ NO

10. Is the applicant the original owner?

☒

YES

☐

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐

YES

☐

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (if needed, use the reverse for extra space):

The variety named in this application was developed by the Seminis Vegetable Seeds, Inc., employee (breeder) named below. By agreement between employee and Seminis Vegetable Seeds, Inc., all rights to any invention, discovery, or development made by an employee are assigned to the Company. No rights to such invention, discovery, or development are retained by the employee.

Employee (Breeder): Ari Oppelaar

Site Location: Wageningen, The Netherlands

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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